

dmf\_WPP88367\_ST25.txt  
SEQUENCE LISTING

<110> Istituto Superiore di Sanita  
National Institutes of Health  
Robbins, Paul  
Rosenberg, Steven  
Maccalli, Cristina

<120> COLORECTAL ANTIGEN

<130> 134-03

<140> US 10595388

<141> 2006-04-13

<150> US 60/512,040

<151> 2003-10-15

<160> 20

<170> PatentIn version 3.5

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<212> DNA

<213> Homo sapiens

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<221> misc\_feature

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gat cag aag ata gcg gcc cta gag gac ctg gtg cag acc ctc cgg cca 207  
Asp Gln Lys Ile Ala Ala Leu Glu Asp Leu Val Gln Thr Leu Arg Pro  
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cac cca gcc gag gca acc ctg cag cgg cag gag gaa ctg gag acg atg 255  
His Pro Ala Glu Ala Thr Leu Gln Arg Gln Glu Glu Leu Glu Thr Met  
45 50 55

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Cys Val Gln Leu Gln Arg Gln Val Arg Glu Met Glu Arg Phe Leu Ser  
60 65 70

gac tat gcc ctg cag tgg gtg gcc gag ccc atg gac cag gag gag tca 351  
Asp Tyr Gly Leu Gln Trp Val Gly Glu Pro Met Asp Gln Glu Asp Ser  
75 80 85

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acc Thr	ctc Leu 155	gag Glu	ccc Pro	atc Ile	ccg Pro	ctg Leu 160	aag Lys	ctc Leu	tac Tyr	cgg Arg	aat Asn 165	ggc Gly	atc Ile	atg Met	atg Met	591
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acc Thr	ttg Leu	cag Gln	aac Asn 285	tgc Cys	tgc Cys	cca Pro	ttg Leu	cct Pro 290	gcc Ala	cgg Arg	atc Ile	cag Gln	gag Glu 295	att Ile	gtg Val	975
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Thr Leu Thr Leu Gln Ala Ala Gly Leu Val Pro Lys Ala Ala Leu Leu							
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Leu Arg Ala Arg Arg Ala Pro Lys Ser Ser Leu Lys Phe Ser Pro Gly							
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ccc tgt ccc ggt ccc ggt ccc ggc ccc agt ccc ggt ccc ggt ccc ggc							1359
Pro Cys Pro Gly Pro Gly Pro Gly Pro Ser Pro Gly Pro Gly Pro Gly							
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Glu Asp Leu Val Gln Thr Leu Arg Pro His Pro Ala Glu Ala Thr Leu							
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Gln Arg Gln Glu Glu Leu Glu Thr Met Cys Val Gln Leu Gln Arg Gln							
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His Gly Glu Arg Asp Trp Met Thr Ala Lys Lys Phe Trp Lys Pro Gly							
100 105 110							

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 Pro Val Pro Gly Gly Ala Arg Leu Arg Thr Leu Glu Pro Ile Pro Leu  
 145 150 155 160  
 Lys Leu Tyr Arg Asn Gly Ile Met Met Phe Asp Gly Pro Phe Gln Pro  
 165 170 175  
 Phe Tyr Asp Pro Ser Thr Gln Arg Cys Leu Arg Asp Ile Leu Asp Gly  
 180 185 190  
 Phe Phe Pro Ser Glu Leu Gln Arg Leu Tyr Pro Asn Gly Val Pro Phe  
 195 200 205  
 Lys Val Ser Asp Leu Arg Asn Gln Val Tyr Leu Glu Asp Gly Leu Asp  
 210 215 220  
 Pro Phe Pro Gly Glu Gly Arg Val Val Gly Arg Gln Arg Met His Lys  
 225 230 235 240  
 Ala Leu Asp Arg Val Glu Glu His Pro Gly Ser Arg Met Thr Ala Glu  
 245 250 255  
 Lys Phe Leu Asn Arg Leu Pro Lys Phe Val Ile Arg Gln Gly Glu Val  
 260 265 270  
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 275 280 285  
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 290 295 300  
 Ala Glu Arg Glu Arg Ser Gln Glu Ser Pro Asn Thr Pro Ala Pro Pro  
 305 310 315 320  
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 325 330 335  
 Leu Met Met Gln Pro Asp Asn Thr Ile Gly Asp Val Arg Ala Leu Leu  
 340 345 350  
 Ala Gln Ala Arg Val Met Asp Ala Ser Ala Phe Glu Ile Phe Ser Thr  
 355 360 365

Phe Pro Pro Thr Leu Tyr Gln Asp Asp Thr Leu Thr Leu Gln Ala Ala  
370 375 380

Gly Leu Val Pro Lys Ala Ala Leu Leu Leu Arg Ala Arg Arg Ala Pro  
385 390 395 400

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Page 5

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35 40 45

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Val Asp Phe Asp Arg Leu Leu Ala Ser Leu Gln Asp Leu Ser Glu Leu  
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 100 105 110  
 Arg Cys Leu Arg Asp Ile Leu Asp Gly Phe Phe Pro Ser Glu Leu Gln  
 115 120 125  
 Arg Leu Tyr Pro Asn Gly Val Pro Phe Lys Val Ser Asp Leu Arg Asn  
 130 135 140  
 Gln Val Tyr Leu Glu Asp Gly Leu Asp Pro Phe Pro Gly Glu Gly Arg  
 145 150 155 160  
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 165 170 175  
 His Pro Gly Ser Arg Met Thr Ala Glu Lys Phe Leu Asn Arg Leu Pro  
 180 185 190  
 Lys Phe Val Ile Arg Gln Gly Glu Val Ile Asp Ile Arg Gly Pro Ile  
 195 200 205  
 Arg Asp Thr Leu Gln Asn Cys Cys Pro Leu Pro Ala Arg Ile Gln Glu  
 210 215 220  
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 225 230 235 240  
 Glu Ser Pro Asn Thr Pro Ala Pro Pro Leu Ser Met Leu Arg Ile Lys  
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 260 265 270  
 Thr Ile Gly Asp Val Arg Ala Leu Leu Ala Gln Ala Arg Val Met Asp  
 275 280 285  
 Ala Ser Ala Phe Glu Ile Phe Ser Thr Phe Pro Pro Thr Leu Tyr Gln

290

295

Asp Asp Thr Leu Thr Leu Gln Ala Ala Gly Leu Val Pro Lys Ala Ala  
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ttcagtcctg gtccctgtcc cgggtcccgt cccggcccca gtcccgggtcc cgggtcccggc 240  
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Thr Leu Thr Leu Gln Ala Ala Gly Leu Val Pro Lys Ala Ala Leu Leu  
35 40 45

Leu Arg Ala Arg Arg Ala Pro Lys Ser Ser Leu Lys Phe Ser Pro Gly  
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&lt;213&gt; Homo sapiens

&lt;400&gt; 17

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&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 18

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35 40 45

Lys Ile Ser Val Pro Ser Cys Tyr Gly Gly Ile Gly Ala Pro Val Ser  
50 55 60

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 Arg Lys Leu Trp Asp Leu Glu Gln Gln Val Lys Ala Gln Thr Asp Glu  
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 Ile Leu Ser Lys Asp Gln Lys Ile Ala Ala Leu Glu Asp Leu Val Gln  
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 Thr Leu Arg Pro His Pro Ala Glu Ala Thr Leu Gln Arg Gln Glu Glu  
 115 120 125  
 Leu Glu Thr Met Cys Val Gln Leu Gln Arg Gln Val Arg Glu Met Glu  
 130 135 140  
 Arg Phe Leu Ser Asp Tyr Gly Leu Gln Trp Val Gly Glu Pro Met Asp  
 145 150 155 160  
 Gln Glu Asp Ser Glu Ser Lys Thr Val Ser Glu His Gly Glu Arg Asp  
 165 170 175  
 Trp Met Thr Ala Lys Lys Phe Trp Lys Pro Gly Asp Ser Leu Ala Pro  
 180 185 190  
 Pro Glu Val Asp Phe Asp Arg Leu Leu Ala Ser Leu Gln Asp Leu Ser  
 195 200 205  
 Glu Leu Val Val Glu Gly Asp Thr Gln Val Thr Pro Val Pro Gly Gly  
 210 215 220  
 Ala Arg Leu Arg Thr Leu Glu Pro Ile Pro Leu Lys Leu Tyr Arg Asn  
 225 230 235 240  
 Gly Ile Met Met Phe Asp Gly Pro Phe Gln Pro Phe Tyr Asp Pro Ser  
 245 250 255  
 Thr Gln Arg Cys Leu Arg Asp Ile Leu Asp Gly Phe Phe Pro Ser Glu  
 260 265 270  
 Leu Gln Arg Leu Tyr Pro Asn Gly Val Pro Phe Lys Val Ser Asp Leu  
 275 280 285  
 Arg Asn Gln Val Tyr Leu Glu Asp Gly Leu Asp Pro Phe Pro Gly Glu  
 290 295 300  
 Gly Arg Val Val Gly Arg Gln Arg Met His Lys Ala Leu Asp Arg Val  
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